AMENDMENTS TO THE CLAIMS

Please amend the claims of the present application as set forth below.

1. (Currently amended) A system for use with an electronic appliance configurable for use with an IEEE 1394 serial bus, comprising:

an IEEE 1394 compliant electrical device; and,

a circuit electronically coupled with said electrical device and configured to cause a reset signal to be generated when ~~a power supply~~ the electronic appliance experiences a power supply failure ~~status of the electronic appliance changes~~;

wherein said electrical device and said circuit are configured to be coupled with the IEEE 1394 serial bus and the electronic appliance.

2. (Original) A system according to claim 1, wherein the electrical device comprises an integrated circuit.

3. (Original) A system according to claim 1, wherein the electrical device controls a physical layer and the reset signal causes the physical layer to be reset.

4. (Original) A system according to claim 3, wherein the reset of the physical layer causes a self-ID command to be generated on the IEEE 1394 serial bus.

5. (Original) A system according to claim 4, wherein the electrical device controls a link layer.

6. (Original) A system according to claim 5, wherein the self-ID command includes a status of the link layer.

7. (Original) A system according to claim 1, wherein the circuit comprises an integrated circuit.

8. (Currently amended) A system for use with an electronic appliance configurable for use on an IEEE 1394 network, comprising a circuit configured for use with an IEEE 1394 compliant electrical device, wherein said circuit is configured to be coupled with the IEEE 1394 network and the electronic appliance, wherein said circuit is configured to cause a reset signal to be generated when ~~a power supply status of~~ the electronic appliance experiences a power supply failure ~~changes~~, and wherein said reset signal causes the network to reset.

9. (Original) A system according to claim 8, wherein the circuit comprises a logic circuit.

10. (Original) A system according to claim 8, wherein the circuit comprises an interface circuit, arbiter circuit, processing circuit, communications circuit, or data conversion circuit.

11. (Original) A system according to claim 8, wherein the circuit and the electrical device are contained on an IEEE 1394 compliant integrated circuit chip.

12. (Original) A system according to claim 8, wherein the appliance has a link layer, and wherein the reset of the network causes a link layer status signal to be generated.

13. (Currently amended). A system for communicably coupling plural electronic appliances comprising:

an IEEE 1394 compliant serial bus; and,

at least one circuit containing one or more IEEE 1394 compliant electrical devices; wherein said at least one circuit is configured to be coupled with the IEEE 1394 compliant serial bus and one or more of said plural electronic appliances, wherein said circuit is configured to cause an appliance reset signal to be generated in an event that an individual appliance experiences a power supply failure but remains connected to the serial bus ~~when a power supply status of the one or more of said plural electronic appliance changes~~, and wherein said appliance reset signal causes the IEEE 1394 serial bus to reset.

14. (Original) A system according to claim 13, wherein the electrical devices comprise integrated circuits.

15. (Original) A system according to claim 13, wherein the circuit and the electrical devices comprise an IEEE 1394 compliant integrated circuit.

16. (Original) A system according to claim 13, wherein the electrical device has a physical layer, and wherein the appliance reset signal causes the physical layer to reset, and wherein the reset of the physical layer causes the serial bus to reset.

17. (Original) A system according to claim 13, wherein said reset of the serial bus causes each electronic appliance coupled to the serial bus to generate an updated status signal in compliance with IEEE 1394 protocols.

18. (Original) A system according to claim 17, wherein said updated status signal is a portion of a self-ID signal.

19. (Original) A system according to claim 18, wherein the appliance has a link layer, and wherein said self-ID signal comprises a link layer status signal.

20. (Original) A system according to claim 19, wherein said appliance has a physical layer, and wherein the physical layer receives power from a supply available through the IEEE 1394 serial bus.

21. (Currently amended) An electronic appliance configured for use on a network comprising:

a processor; and, a circuit for monitoring when the electronic appliance experiences a power supply failure ~~a power supply status of the electronic appliance~~; wherein said circuit is coupled with the processor and configured to cause an appliance reset signal to be generated when the ~~power supply status of the electronic appliance changes~~ electronic appliance experiences the power supply failure.

22. (Original) The electronic appliance of claim 21, wherein the appliance reset signal causes a network reset.

23. (Original) The electronic appliance of claim 21, wherein said network comprises an IEEE 1394 compliant serial bus network.

24. (Original) The electronic appliance of claim 23, wherein the reset signal causes the IEEE 1394 serial bus network to reset.

25. (Currently amended) A system for increasing the efficiency of data transfer between appliances coupled to an IEEE 1394 serial bus network, comprising:

means for ~~monitoring~~ detecting a power supply ~~status~~ failure of an electronic appliance on an IEEE 1394 serial bus network; and,

means for generating a reset signal on said serial bus network when said power supply failure ~~status changes~~ is detected, and wherein said generating means is communicably coupled to said monitoring means.

26. (Currently amended) A method of operating electronic appliances, comprising:

~~coupling an electronic appliance to a data transfer network;~~

monitoring a status of a power supply of an ~~said~~ electronic appliance coupled to a data transfer network and wherein said power supply is not transferred over said data transfer network; and,

transmitting a signal on the data transfer network when said status changes.

27. (Cancelled).

28. (Original) A method according to claim 27, wherein transmitting a signal comprises transmitting a physical layer reset signal on the serial bus network.

29. (Original) A method according to claim 28 further comprising in response to said transmitting, generating a serial bus network reset signal.

30 (Currently amended) A method of operating electronic appliances, comprising:

coupling at least one appliance to a data transfer network;

receiving power for the appliance from a primary power supply which is separate and distinct from the data transfer network;

detecting a failure of the primary power supply; and,

~~monitoring a condition of the at least one appliance, the condition relating to an ability of the appliance to receive and transmit data over the network; and,~~

responsive to said detecting, switching a physical layer of the appliance to a secondary power supply received from the network. ~~sending a signal over the network when the condition of the at least one appliance changes wherein said signal causes information about said condition of the appliance to be available on the network.~~

31. (Currently amended) A method according to claim 30 further comprising, in response to said ~~sending~~ switching, generating a network wide self-identification signal.

32. (Currently amended) A method according to claim 30~~, wherein said~~ further comprising responsive to said switching, ~~sending a signal comprises~~ sending a physical layer reset signal on an IEEE 1394 compliant network.

33. – 45. (Cancelled).